

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
24 June 2004 (24.06.2004)

PCT

(10) International Publication Number
WO 2004/053157 A2

(51) International Patent Classification⁷: C12Q 1/68, A01K 67/027, A61K 38/00, 39/00, 48/00

(21) International Application Number: PCT/EP2003/014089

(22) International Filing Date: 11 December 2003 (11.12.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data: 60/432,853 12 December 2002 (12.12.2002) US

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(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LT, LU, LV, MA, MD, MK, MN, MX, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SE, SG, SK, SY, TJ, TM, TN, TR, TT, UA, US, UZ, VC, VN, YU, ZA, ZW.

(84) Designated States (regional): Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR).

Published:

— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 2004/053157 A2

(54) Title: METHODS FOR DIAGNOSING AND TREATING SCHIZOPHRENIA

(57) Abstract: The genes encoding SCYA2, GADD45B, S100A8, CDKN1A, IL1RL1, TGM2, MAFF, SERPINA3, GRO1, CD14, KIAA1075, CHI3L1, SERPINH1, MT1X, KIAA0620, TIMP1, NUMA1, DDIT3 and TOB2, are upregulated in the anterior cingulate of schizophrenic patients compared to normal patients and as such are useful drug targets for schizophrenia. Methods of screening, diagnosing and treating schizophrenia based on these genes are provided. Transgenic nonhuman animals having increased copy number or increased expression levels of these genes are also provided. The transgenic nonhuman animals are used in methods for screening for potential therapeutic agents.